

END CAP SEAL ASSEMBLY FOR AN ELECTROCHEMICAL CELL
ABSTRACT OF THE DISCLOSURE

An end cap seal assembly for an electrochemical cell such as an alkaline cell is disclosed. The end cap assembly comprises a convoluted metal support disk and underlying insulating sealing disk. The convoluted support disk has a downwardly extending wall with at least one aperture therethrough which preferably faces the ambient environment. The insulating disk has a slanted downwardly extending wall forming a rupturable membrane which underlies and abuts the inside surface of the downwardly extending wall of the support disk. The rupturable membrane is slanted downwardly at an acute angle with the cell's longitudinal axis. The rupturable membrane underlies and abuts the aperture in the downwardly extending wall of the end cap. When gas pressure within the cell exceeds a predetermined level the rupturable membrane pushes through said aperture and ruptures allowing gas to escape therefrom to the environment. A separate terminal plate can be stacked onto the metal support disk and welded thereto.

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